Teachers'
351.5 Retirement System,
Titrsav State of Montana
1981 actuarial
evaluation as of
July 1



TEACHERS' RETIREMENT SYSTEM

STATE OF MONTANA

ACTUARIAL VALUATION

AS OF JULY 1, 1981

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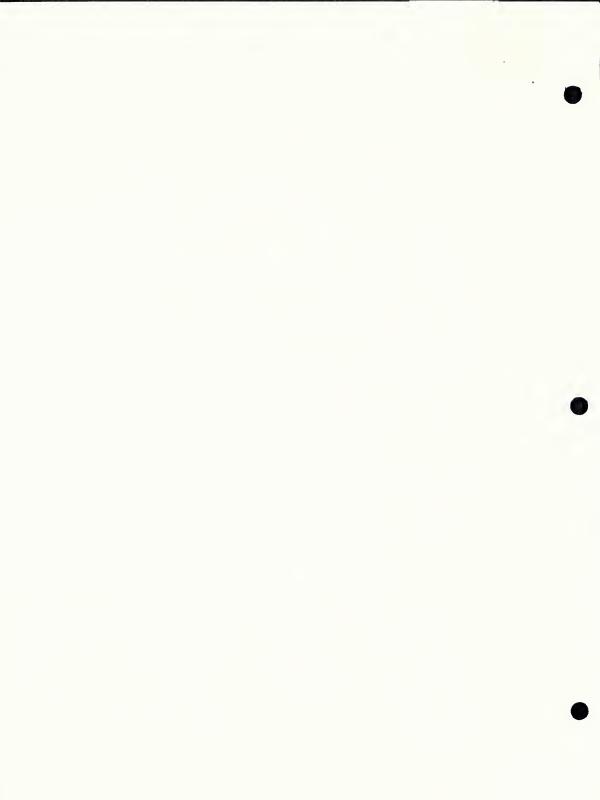
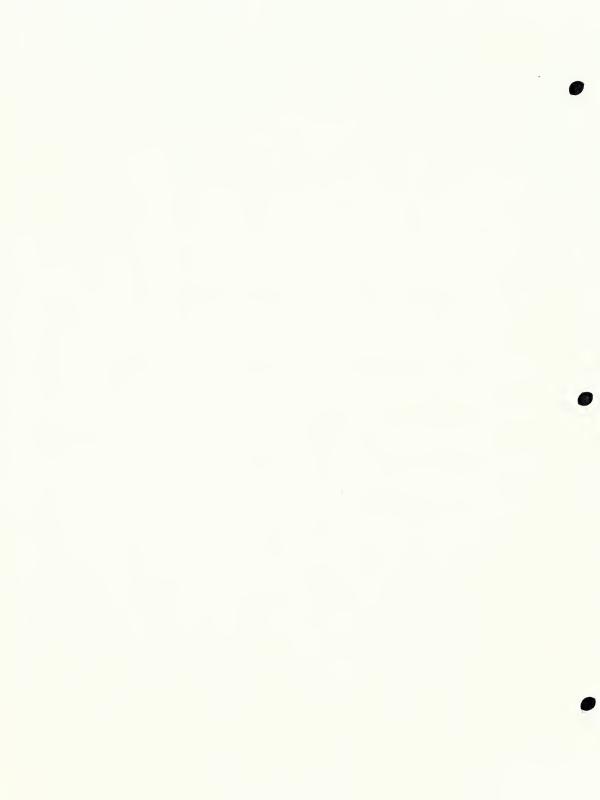


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SECTION I

INTRODUCTION

An actuarial valuation of the Teachers' Retirement System of the State of Montana has been completed as of July 1, 1981. This valuation was authorized by the Teachers' Retirement Board under Section 19-4-201, M.R.C. The purpose of the valuation was to determine the financial position of the fund, the normal cost, and the unfunded accrued liability based upon present and prospective assets and liabilities of the system as of July 1, 1981.

Section II presents an analysis of the results of the actuarial valuation. The numerical findings supporting this analysis are shown in Section III.

In conducting the actuarial valuation, certain assumptions were made as to the future experience of the system. A summary and discussion of each of the assumptions is contained in Section IV.

The valuation is based upon the Teachers' Retirement Act and incorporates all amendments as of July 1, 1981. Employee data and other records supplied by the system are summarized by classification in Section V and VI. A summary of the major provisions of the Act is contained in Section VII.

ACTUARIAL CERTIFICATION

Based upon the assumptions stated in this report and the employee data and other records provided by the Teachers' Retirement System, the actuarial valuation contained in this report has been performed in accordance with generally accepted actuarial principles and techniques.

Alton P. Hendrickson Member, American Academy of Actuaries



SECTION II

ANALYSIS OF VALUATION OF TEACHERS' RETIREMENT SYSTEM

Summary of Findings

Based on the valuation which was conducted as of July 1, 1981, we have concluded that the Montana Teachers' Retirement System is funded on an actuarially sound basis. The present contribution rate of 12.619% of salaries is sufficient to finance the cost of benefits as they accrue in the future as well as to amortize the current unfunded liability over a period of 48.50 years. If the unfunded liability is to be funded over a recommended period of 40 years, the required contribution rate would be 13.339% of salaries.

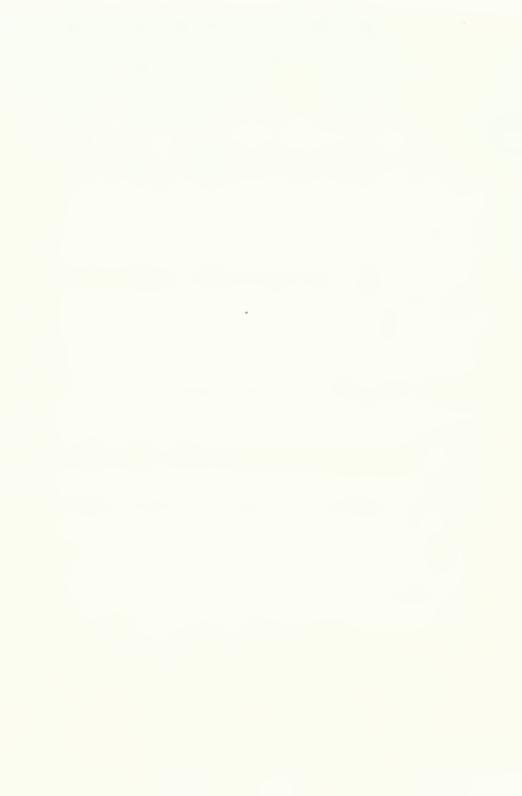
The previous valuation as of July 1, 1979 was based on a contribution rate of 12.499% of salaries. This rate was increased to 12.619% by the 1981 Legislature to fund supplemental benefits to retirees. The 1979 valuation determined that a rate of 13.089% would be required to fund the unfunded liability over a recommended period of 40 years. The increased rate of 13.339% of salaries recommended by the 1981 valuation is partially attributable to the supplemental benefits to retirees.

The current amortization period of the unfunded liability based on the statutory contribution rates has increased from 48.15 years in 1979 to 48.50 years in 1981. There were many offsetting factors which resulted in this slight increase, as discussed below.

Active Members

There were three factors pertaining to active mebers which substantially affected the results of this valuation:

1. In reviewing the data which had been prepared for the July 1, 1981 actuarial valuation, the Teachers' Retirement System determined that a majority of the salaries had been miscalculated. This miscalculation was found to have occurred in a computer program which had been prepared in 1975 by the State's data processing division for the sole purpose of extracting data for the actuarial valuation. The program inappropriately annualized all salaries, which resulted in salaries paid under a ten month contract being overstated by 20%.



The computer program was corrected and the salaries recalculated. From the revised figures, it was determined that the previous salaries had been overstated, in aggregate, by 18.6%. It was further determined that the salaries had been overstated in the previous three actuarial valuations.

A valuation was performed to determine the magnitude of the error generated by the inaccurate data. This valuation determined that the amortization period had been understated by 3.03 years and that the 40 year funding rate had been understated by .266%.

2. A major reduction in the funding requirements resulted from legislation pertaining to the handling of termination pay. A member may now (1) use the full amount in the calculation of the average final compensation by adequately compensating the System for the additional benefits, (2) pay the regular contribution on the termination pay and average such pay over all years of creditable service, or (3) exclude the pay from the average final compensation and make no additional contributions. Previously, termination pay was used to determine the final average compensation, with only regular contributions required.

This legislative change resulted in a reduction of .474% in the rate of salaries required to fund the benefits. This amount was sufficient to reduce the period of amortization of the unfunded liability by 6.39 years.

3. As a customary part of the valuation, we conducted a study to compare the actuarial assumptions against the actual experience of the System. The study revealed that the number of members receiving disability benefits is higher than had been projected by the actuarial assumptions. The study was based upon disabilities in the last eight years and determined that an increase in the disability rate assumptions was warranted.

A similar study of the withdrawal rates concluded that the number of actual terminations was less than had been projected. In setting new long-term withdrawal rate assumptions, consideration was given to the current state of the economy which would tend to discourage terminations. It was also recognized that some school districts have had a reduction in personnel due to reduced enrollment.

The net result of the change in the disability and withdrawal assumptions was an increase in the funding rate of .201%. This resulted in an increase in the amortization period of 2.70 years.



The net effect of the disability rate changes was minor because the increased liability for disability tended to offset the liability for retirements. The majority of the funding rate increase was attributable to the change in the withdrawal assumptions. A summary of the new actuarial assumptions is shown in Section IV.

Inactive Members

The liability for inactive lives increased substantially from the previous valuation. This increase was mainly attributable to the increase in average monthly benefits. The average monthly benefits for the retirees, disableds and survivors increased from \$337 to \$417. The increase in average benefits resulted from new retirees as well as supplemental benefits granted by the 1981 Legislature. The \$300 minimum benefit had the largest impact upon the average benefits.

An additional funding rate of .12% of salaries was approved by the Legislature to finance the cost of supplemental benefits to retirees.

The liability for disability benefits increased disproportionately because of a reclassification of disabilities in this valuation. Some disableds had previously been included under the category of retirement rather than disability.

General

The Teachers' Retirement System has made a concerted effort during the last two years to improve the quality of the data provided for the actuarial valuation. As a result, the data is more complete; in fact, no pertinent information was missing for inactive members. A sampling of the data has also shown the information to be quite accurate.

Our examination of the data leaves us no reason to believe that any major errors exist in the information used in this valuation. The computer calculations used to extract salary data for previous valuations were unfortunately in error, as discussed above. It is important that this dicrepancy be considered when comparing the results of this valuation with previous valuations.

A detailed summary of the members, salaries, and benefits is illustrated in Section VI of this report. The active members have been categorized into full-time and part-time members in order to prevent any distortion of the average salaries.



SECTION III

SCHEDULE A

NORMAL COST ALLOCATION

(1)	Normal Cost Contribution Rate:					
	(a) Retirement	5.160%				
	(b) Death	.410				
	(c) Disability	.320				
	(d) Vested Terminations	.812				
	(e) Withdrawals	1.085				
	(f) Total Rate	7.787%				
(2)	Present Value of Future Salaries Of Current Members	\$2,290,402,951				
(3)	Present Value of Future Normal Costs For Current Members (1(f) * (2)) \$ 178,3					



SCHEDULE B CONTRIBUTION AND LIABILITY ALLOCATIONS

(1)	Unfu	nded Accrued Liability		
	(a)	Present Value of Benefits	\$	807,543,614
	(b)	Present Value of Future Normal Costs		178,353,678
	(c)	Fund Assets		226,577,611
	(d)	Unfunded Liability (a)-(b)-(c)	\$	402,612,325
(2)	Cont	ribution Rates Amortized over 40.00 Years		
	(a)	Present Value of Salaries During Next 40.00 Years	\$7	,251,629,810
	(b)	Unfunded Contribution Rate 1(d)/2(a)		5.552%
	(c)	Normal Cost Rate (Schedule 1)		7.787%
	(d)	Total Funding Rate		13.339%
(3)	Cont	ribution Rates Amortized over 48.50 Years		
	(a)	Present Value of Salaries During Next 48.50 Years	\$8	,332,271,952
	(b)	Unfunded Contribution Rate 1(d)/3(a)		4.832%
	(c)	Normal Cost Rate (Schedule 1)		7.787%
	(d)	Total Funding Rate		12.619%

SCHEDULE C

PRESENT VALUE OF BENEFITS

(1)	Present Value of Benefits - Inactive Members				
	(a)	Retirement	\$192,236,817		
	(b)	Death	15,250,194		
	(c)	Disability	8,832,519		
	(d)	Vested Terminations	6,546,635		
	(e)	Withdrawals	2,213,625		
	(f)	Tax Sheltered Annuity	1,219,338		
	(g)	Excess Interest Payment	52,375		
	(h)			\$226,351,503	
(2)	Pres	ent Value of Benefits - Active	Members		
	(a)	Retirement	\$431,053,296		
	(b)	Death	28,760,851		
	(c)	Disability	18,749,343		
	(d)	Vested	54,636,739		
	(e)	Withdrawals	45,331,310		
	(f)	Tax Sheltered Annuity	2,620,206		
	(g)	Legacy Fund	40,366		
	(h)	Total Active		\$581,192,111	
(3)	Tota	l Liabilities		\$807,543,614	



SECTION IV

ACTUARIAL FUNDING METHOD AND ASSUMPTIONS

The true cost of the Teachers' Retirement System will be determined by its own future experience. In determining the financial requirement of a system, certain assumptions must be made as to the expected future experience. This section summarizes the funding method applied as well as the basic assumptions used.

Any variations in the actual experience of the system from those assumed in this valuation may cause changes in the projected future costs of the system. It is therefore necessary that the actuarial assumptions be reviewed from time to time with adjustments as experience warrants. It is also important that regular valuations be performed to determine the financial effect of variations between the actual and assumed experience.

The assumptions shown below were based upon the actual past experience of the system together with our projections as to future experience.

FUNDING METHOD

The method of funding employed is commonly referred to as the entry age normal cost method. This method establishes a normal cost of the system as well as an unfunded accrued liability. The normal cost is the level percentage of total salaries required to fund the benefits, assuming this percentage had been contributed since each member's entry into the system.

The unfunded accrued liability represents the excess of the present value of total liabilities over the present assets of the system and the present value of expected future contributions for normal costs.

In order to maintain the system on an actuarially sound basis, the total rate of contribution should be such as to meet the normal cost in addition to making progress towards the amortization of the unfunded accrued liability.



MORTALITY RATES

The mortality rates for males and females are based upon a published table referred to as the 1971 Group Annuity Mortality Table. The expected annual rates of mortality for selected ages are shown below:

Age	<u>Female</u>	Male
25	.035%	.062%
30	.047	.081
35	.065	.112
40	.094	.163
45	.140	.292
50	.215	.529
55	.326	.852
60	.549	1.312
65	.956	2.126
70	1.648	3.611
75	3,239	5.529
80	5.609	8.743
85	8.918	13.010
90	13.858	17.945

DISABILITY RATES

The disability rates are based upon the ordinary disability rates published by the Railroad Retirement Board in its eighth valuation, with modifications to reflect the Teachers' Retirement System's experience. The expected annual rates of disability for selected ages are shown below:

Age	Annu a l Rate of Disability
0.5	0049
25	.024%
30	.024
35	.032
40	.072
45	.152
50	.272
55	.496
60	1.586

WITHDRAWAL RATES

The withdrawal rates are based upon a recent study of the experience of the Teachers' Retirement System. Sample rates are shown below:

Age	Annual Rate of Withdrawal
25 30 35 40 45 50 55	14.50% 12.05 9.93 7.95 5.60 3.10 1.90 1.40

FUTURE SALARIES

The rates of future salary increases are based upon a recent study of longevity and meritorious increases by age. In addition to the base increases, an inflationary increase of $5\frac{1}{2}\%$ per year is assumed. Sample rates are shown below for longevity and meritorious increases as well as total annual increases:

Age	Longevity and Meritorious	Total
20 25	3.90%	9.61%
30	3.40 3.00	9.09 8.67
35	2.10	7.72
40	1.10	6.66
45	.60	6.13
50	.50	6.03
55	.50	6.03
60	.50	6.03

RETIREMENT RATES

Based upon a recent study of the experience of the Teachers' Retirement System, retirements were assumed to occur at an average age of 62. The retirement age was appropriately adjusted for those members who had less than five years of service and for those who had already attained the average retirement age.

INVESTMENT EARNINGS

The annual rate of net return was assumed to be 7% for future investment earnings.

EXPENSES

The administrative expenses are assumed to be paid from investment income in excess of the assumed rate of 7%.

ASSETS

The security investments are valued at amortized book value. The real estate mortgages are valued at full principle value.

SECTION V

COMPARISON SUMMARY

	Fiscal Year Ended 1979	Fiscal Year Ended 1981
Present Value of Benefits	\$739,207,759	\$807,543,614
Present Value of Normal Costs	208,880,426	178,353,678
Unfunded Accrued Liability	354,351,575	402,615,381
Assets	\$175,975,758	\$226,577,611
Active Members Number of Lives Annual Payroll	15,122 \$246,085,408	14,055 \$237,411,637
Inactive Members		
Number of Lives Monthly Benefits	4,529 \$ 1,527,664	4,885 \$ 2,022,079
Contributions Based on Payroll		
Employer Share Employee Share	\$ 15,532,911 \$ 15,225,304	\$ 15,270,316 \$ 14,688,658

SECTION VI

SUMMARY OF DATA

Illustration	Page
Full-time Active Members	
Number of Members Annual Salaries Average Salaries	14 15 16
Part-time Active Members	
Numbers of Members Annual Salaries Average Salaries	17 18 19
Retired Members	20
Disabled Members	21
Survivors' Benefits	22
Children's Benefits	23

NUMBER OF FULL-TIME ACTIVE MEMBERS

	COMPLETE YEARS OF					MAL						
		UNDER 25		30-34	35-39	40-44	45-49	50-54	55-59	60-64		TOTAL
	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	72	593 115	472 656 139	243 448 528 76	110 166 390 273 58	72 77 172 206 236 39	42 42 65 82 104 173 41	21 12 28 50 34 71 98 21	3 12 11 12 9 25 38 32	3 3 2 2 2 2 3	1629 1531 1336 702 443 310 179 56
-	40-UP TOTAL	72	708	1267	1295	997	802	549	335	3 145		3 6189
	COMPLETE YEARS OF						ALES					
	SERVICE	UNDER 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	OVER 65	TOTAL
	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	283	1081 260	544 660 178	327 307 304 73	198 193 211 119 31	106 155 149 90 61 32	57 92 144 91 72 48 19	24 39 78 63 52 36 26	9 19 32 44 44 42 27 21 8	3 10 6 10 8 2 4	2631 1728 1106 486 270 166 74 36 12
	TOTAL	283	1341	1382	1011	752	593	523	329	246	49	6509
	COMPLETE YEARS OF					TOT						
		UNDER 25				40-44		50-54			OVER 65	TOTAL
	0-4 5-9 10-14 15-19 20-24	355	1674 375	1016 1316 317	570 755 832 149	308 359 601 392 89	178 232 321 296 297	99 134 209 173 176	45 51 106 113 86	12 31 43 56 53	6 13 9 12	4260 3259 2442 1188 713

2306 1749 1395

25-29

30-34

35-39

40-UP

TOTAL

355 2049

⁻¹⁴⁻



ANNUAL SALARIES OF FULL-TIME ACTIVE MEMBERS IN THOUSANDS

COMPLETED)				MAL	ES					
YEARS OF SERVICE U	INDER 25	25-29	30-34	35-39	40-44		50-54		60-64	OVER 65	
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	883	8125 1733	7418 11270 2732	4596 8772 11071 1752	2156 3599 8932 6438 1460	1492 1715 4041 5112 5781 1105	1063 1006 1562 2036 2583 4493 1083	554 243 606 1212 818 1788 2718 597	64 228 243 324 224 656 997 903	65 42 48 58	26370 28655 29257 16939 10908 8090 4856 1595
40-UP TOTAL	883	9858	21420	26191	22585	19246	13826	8536	86 3725	486	86 126756
COMPLETED						ALES					
YEARS OF SERVICE (JNDER 25	25-29		35-39	40-44						
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP TOTAL	3222	13556 3668 17224	7473 10271 3137	4559 5026 5744 1460	2705 3195 4032 2300 656	1458 2507 2705 1773 1246 698	843 1463 2625 1741 1430 955 373	332 623 1408 1191 1026 693 550 212	128 293 562 772 821 814 551 453 185 4579	176 106 200 164 47 78 76	34289 27097 20389 9343 5379 3324 1521 743 261 102346
COMPLETE	0				тот	AL					
YEARS OF SERVICE (UNDER 25			35-39	40-44	45-49	50-54	55-59	60-64	OVER 65	TOTAL
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	4105	21681 5401	14891 21541 5869	9155 13798 16815 3212	4861 6794 12964 8738 2116	2950 4222 6746 6885 7027 1803	1906 2469 4187 3777 4013 5448 1456	886 866 2014 2403 1844 2481 3268 809	192 521 805 1096 1045 1470 1548 1356 271	32 140 246 171 242 212 105 173	60659 55752 49646 26282 16287 11414 6377 2338
TOTAL	4105	27082	42301	42980	35473	29633	23256	14571	8304	1397	229102
						15					

AVERAGE SALARIES OF FULL-TIME ACTIVE MEMBERS

COMPLETED					MALE	ES					
YEARS OF - SERVICE UNI		25-29		35-39		45-49	50-54	55-59		OVER 65	TOTAL
1	12267	13701 15068	15717 17180 19655	18913 19580 20969 23048	19604 21680 22901 23584 25179	20716 22271 23492 24815 24496 28339	25299 23945 24023 24831 24835 25969 26412	26374 20240 21652 24244 24072 25189 27735 28409	21329 18993 22054 27013 24904 26247 26231 28218 28568	18500 29501 23468 21688 20872 24211 29076 31568	16187 18715 21899 24130 24624 26100 27128 28469 28568
	12267	13923	16906	20224	22654	23997	25181	25483	25686	25552	20480
COMPLETED					FEMA						
SERVICE UNI	DER 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	OVER 65	TOTAL
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	11386	12540 14106	13736 15561 17625	13941 16371 18893 19999	13661 16555 19109 19332 21163	13757 16173 18154 19697 20423 21806	14795 15904 18228 19128 19856 19901 19641	13819 15962 18054 18905 19734 19248 21148 19231	14181 15439 17559 17544 18669 19388 20420 21575 23131 18618	6500 17137 17624 17682 19952 20541 23285 19602 19021 18605	13032 15681 18435 19224 19921 20028 20553 20640 21761 15723
COMPLETED					тот						
SERVICE UNI		25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	OVER 65	
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	11564	12951 14401	14657 16368 18515	16061 18275 20210 21555	15783 18925 21570 22293 23780	16572 18197 21015 23259 23659 25395	19251 18424 20031 21831 22798 24651 24268	19678 16969 19005 21268 21449 23190 26354 25254	15968 16815 18709 19573 19727 21947 23817 25586 24614	10500 23319 18972 19017 20105 21275 26180 24730 19021	14239 17106 20330 22123 22843 23982 25205 25405 23123
TOTAL	11564	13217	15969	18638	20282	21241	21692	21944	21239	20546	18042



NUMBER OF PART-TIME ACTIVE MEMBERS

COMPLETE					MAL	.ES						
YEARS OF SERVICE	UNDER 25						50-54	55-59	60-64			TOTAL
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	3		74 17 2	47 16 8 2	19 3 8 1	18 3 4 5	9 3 3 4 5	3	1		1	275 44 28 14 6 2
TOTAL	3	99	93	73	31	31	25	11	3		2	371
COMPLETE YEARS OF						IALES						
	UNDER 25			35-39		45-49	50-54	55-59				
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	43	268 18	198 79 11	118 26 7	76 13 7 1	27 17 3 4 2	22 7	10 3 3 1	3 2 2 2 2		1	766 165 33 13 8
40-UP TOTAL	43	286	288	151	98	53	35	19	10		3	986
COMPLETE					ТОТ	AL						
	UNDER 25					45-49						TOTAL
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	46	367 18	272 96 13	165 42 15 2	95 16 15 2	45 20 7 9	31 10 3 8 6 2	2			- 2 1 1	1041 209 61 27 14 3
TOTAL	46	385	381	224	129	84	60	30	13	:	5	1357
					-	17-						



ANNUAL SALARIES OF PART-TIME ACTIVE MEMBERS IN THOUSANDS

COMPLETED					MAL						
YEARS OF SERVICE U	JNDER 25			35-39		45-49					
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	13	457	415 92 11	289 217	121 20 105	103 17 40	72 . 14	27 5 39 11 18 32	11	1	1509 366 314 188 96 34 32 42
40-UP TOTAL	13	457	518	624	260	232	279	132	55	11	2581
COMPLETED)					IALES					
YEARS OF SERVICE U	JNDER 25	25-29	30-34	35-39	40-44		50-54		60-64	OVER 65	
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39	198	1314	1109 574 98	653 191 75	403 94	165 125 24	119 52 23 6 3	55	15 10 23 10		4033
40-UP TOTAL	198	1446	1781	919	558	384	203	142	69	31	5731
COMPLETED YEARS OF	-				ТОТ						
SERVICE		25-29	30-34		40-44	45-49	50-54	55-59	60-64	OVER 65	
0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-UP	211	1771			524 114	268 142 64	191 66	82 24	17 10 23 21	12 1 17 12	5542 1563 615 300 181 37 32 42
TOTAL	211	1903	229 9	1543		616	482	274	124	42	8312



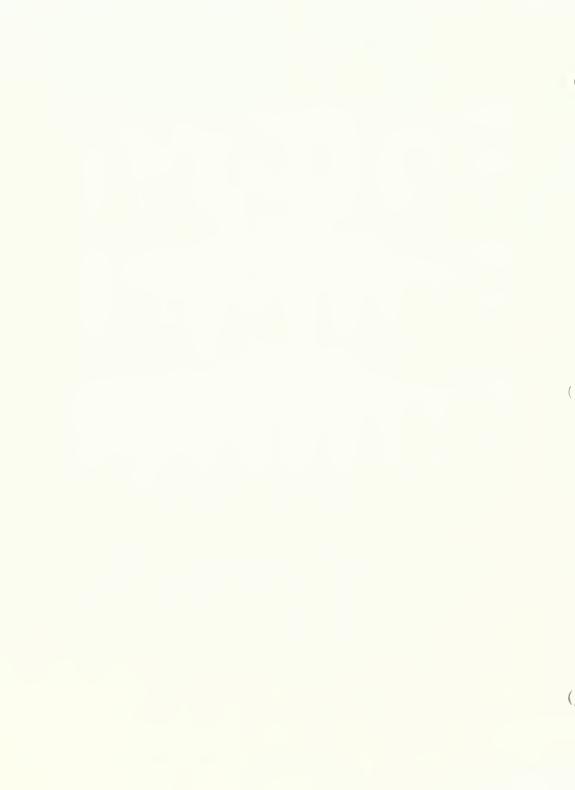
AVERAGE SALARIES OF PART-TIME ACTIVE MEMBERS

OMPLETE					MAL						
EARS OF SERVICE	UNDER 25	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	OVER 65	TOTAL
0-4 5-9 10-14	4387	4621	5614 5405	6159 13560 12314	6349 6727 13175	5702 5668 10084	8034 4653 6662	6848 4724 13044	2010		5493 8321 11213
15-19 20-24 25-29				9570	14000	10155 21100	20457 15028 15777	10800 18141 31537	10560		13365 16040 16959 31537
30-34 35-39 40-UP								31337	42016		42016
TOTAL	4387	4621	5569	8549	8394	7479	11160	11975	18195	5808	6959
OMPLETE					FEM						
ERVICE	UNDER 25	25-29	30-34	35-39	40-44	45-49	50-54				TOTAL
0-4 5-9 10-14	4616	4901 7320	5601 7271 8917	5536 7336 10709	5305 7249 8049	6115 7359 8079	5391 7457	5454 6249 8312	4980 4832 11749	1719	5264 7253 9153
15-19 20-24 25-29 30-34 35-39 40-UP					4644 119	11117 13004	5821 6225 2646	13369 14917			8652 10715 2646
TOTAL	4616	5054	6186	6086	5699	7262	5798	7443	6975	10109	5814
OMPLETE					тот						
	UNDER 25	25-29		35-39	40-44	45-49	50-54	55-59	60-64		
0-4 5-9 10-14 15-19 20-24		4826 7320	5605 6940	5713 9707	5514 7151 10783 9322 119	5950 7105 9225 10583 15703	6158 6616 6662 13139 13561	5852 5868 10678 12085	4238 4832 11749 6917 11459	5957 1420 16528	5325 7478 10099 11096 12997
25-29 30-34 35-39					113	13703	9212	18141 31537	42016		12188 31537 42016
40-UP	4601	4942	6035	6889	6347	7342	8032	9105	9564	8388	6127



SUMMARY OF RETIREES

COMPLETED YEARS OF			NUM	BER OF	MEMBERS				
SERVICE UN							80-84	OVER 85	TOTAL
MALE FEMALE	28 10	179 101	226 402	251 656	201	153 609	56 321	33 235	1127 3092
TOTAL	38	280	628	907	959	762	377	268	4219
COMPLETED YEARS OF			TOTAL B	ENEFIT	IN THOU	SANDS			
SERVICE UN	IDER 54	55-59	60-64	65-69	70-74	75-79	80-84	OVER 85	TOTAL
MALE FEMALE	27 8	153 39	178 187		97 246	64	23 96	11 72	709 1096
TOTAL	35	192	365	424	343	244	119	83	1805
COMPLETED YEARS OF			AVERAG	E MONTH	LY BENE	FIT			
SERVICE UN	IDER 54	55-59	60-64		70-74	75-79		OVER 85	TOTAL
MALE FEMALE	954 782	857 384		623 409	481 325		419 299	332 306	629 355
TOTAL	909	687	582	468	358	320	317	309	428



SUMMARY OF DISABLED

COMPLETED					MEMBERS				
YEARS OF SERVICE UN	DER 54	55-59						OVER 85	TOTAL
MALE FEMALE	16 18	8	14 29	14	1 17	3 11	2 7	2 4	60 135
TOTAL	34	26	43	45	18	14	9	6	195
COMPLETED YEARS OF			TOTAL B	ENEFIT	IN THOU	SANDS			
SERVICE UN	DER 54	55-59	60-64		70-74	75-79	80-84	OVER 85	TOTAL
MALE FEMALE		4 7		7 11	6	1 3	1 2	1 1	28 47
TOTAL	13	11	18	18	6	4	3	2	75
COMPLETED						FIT			
YEARS OF SERVICE UN	DER 54	55-59		65-69		75-79	80-84	OVER 85	TOTAL
MALE FEMALE				508 348	307 334				453 345
TOTAL	380	406	402	398	332	310	329	316	379



SUMMARY OF SURVIVORS

COMPLETED			NUM	BER OF	MEMBERS				
SERVICE UN						75-79	80-84	OVER 85	TOTAL
MALE FEMALE	18	10	18	18		16	8	6 34	
TOTAL	62	42	61	64	56	53	47	40	425
COMPLETED YEARS OF			TOTAL B	ENEFIT	IN THOU	SANDS			
SERVICE UN		55-59	60-64	65-69	70-74	75-79		OVER 85	TOTAL
MALE FEMALE								1 9	31 109
TOTAL	19	20	22	22	19	15	13	10	140
COMPLETED						FIT			
YEARS OF SERVICE UN			60-64	65-69		75-79	80-84	OVER 85	TOTAL
MALE FEMALE		357 486		265 366		273 288		209 266	281 339
TOTAL	306	455	355	338	331	283	270	257	325



SUMMARY OF CHILD'S BENEFIT

COMPLETED YEARS OF		NUME	ER OF 1	MEMBERS				
SERVICE UNDER 5	5-6	7-8	9-10	11-12	13-14	15-16	OVER 17	TOTAL
MALE 1 FEMALE	2	1 1	2 2	2	4	15	13	40
TOTAL 1	3	2	4	2	4	15	15	46
COMPLETED YEARS OF		TOT	TAL BENI	EFITS				
SERVICE UNDER 5	5-6	7 -8	9-10	11-12	13-14	15-16	OVER 17	TOTAL
MALE 100 FEMALE	200 100	100 100	200 200	200	400	1600	1300	4100 600
TOTAL 100	300	200	400	200	400	1600	1500	4700
COMPLETED YEARS OF		AVERAGE	MONTH	Y BENEF	· IT			
SERVICE UNDER 5	5-6	7-8	9-10	11-12	13-14	15-16	OVER 17	TOTAL
MALE 100 FEMALE	100 100	100 100	100 100	100	100	107	100 100	103 100
TOTAL 100	100	100	100	100	100	107	100	102



SECTION VII

SUMMARY OF BENEFIT PROVISIONS

Vesting Period 5 years. No benefits are payable unless the member has a vested right.

Final Average Salary Average of highest 3 consecutive years of earnings.

Normal Form of Benefits

Life only annuity. All benefits cease upon death; however, in no event will the member receive less than the amount of his personal contributions with interest.

Normal Retirement Benefits

Minimum of 30 years service or age 60;
maximum of age 70. The retirement benefit
is equal to one-sixtieth (1/60) of final
average salary for each year of service.
The minimum benefit is equal to onesixtieth (1/60) of \$7,200 for each year of
service, for members retired prior to July
1. 1981.

Early Retirement Benefits Minimum age 55; the retirement benefit is calculated in the same manner as described for normal retirement, but the monthly benefit is reduced $^{1}_{2}$ of 1% for each month early retirement precedes age 60.

Death Benefits

The death benefit is equal to one-sixtieth (1/60) of final average salary for each year of service accrued at date of death with an actuarial adjustment based on the relation of the member's age at death to his beneficiary's age. In addition, a child's benefit of \$100/month is paid to each child under the age 18 until age 18.

Disability Benefits

The disability benefit is equal to one-sixtieth (1/60) of final average salary for each year of service accrued at date of disability. The minimum disability benefit is equal to one-quarter (%) of the final average salary.

Withdrawal Benefits

With less than 5 years of service, the accumulated employee contributions with interest are returned. With more than 5 years, the member may elect a refund of contributions with interest, or may leave his contributions and retain a vested right to death and retirement benefits.

Tax Sheltered Annuity

The Teachers' Retirement System sponsors a tax-deferred annuity program for the benefit of its members. The policies of this program have been established in accordance with the guidelines set by the Internal Revenue Service. The benefits provided by this program are determined solely by the value of the member's account (voluntary contributions plus interest) using actuarial tables provided by the Retirement Board.

Contributions

Employee: 6.187% of compensation

*Employer: 6.432% of compensation

^{*}This percentage will be increased to 6.463% on October 1, 1981 to provide funding for the purchase of creditable military service during the Vietnam conflict.

